ī	Application No.	Applicant(s)
Notice of Allowability	09/287,304	YAMAMOTO ET AL.
	Examiner	Art Unit
	Jeff Piziali	2629
The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS I herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	S (OR REMAINS) CLOSED in 5) or other appropriate comm RIGHTS. This application is	n this application. If not included unication will be mailed in due course. THIS
1. 🔀 This communication is responsive to the Amendment file	ed 19 September 2007.	
2. The allowed claim(s) is/are <u>1-21</u> .		
 3. Acknowledgment is made of a claim for foreign priority a) All b) Some* c) None documents hat 2. Certified copies of the priority documents hat 3. Copies of the certified copies of the priority 	ve been received. ve been received in Application	on No
International Bureau (PCT Rule 17.2(a)).	documents have been receive	a in this national stage application from the
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which g	NMENT of this application.	AMINER'S AMENDMENT or NOTICE OF
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5. CORRECTED DRAWINGS (as "replacement sheets") m		/ DTO 048\ etteched
(a) including changes required by the Notice of Draftspe		w (PTO-948) attached
1) hereto or 2) to Paper No./Mail Date		r in the Office action of
(b) including changes required by the attached Examine Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFF each sheet. Replacement sheet(s) should be labeled as such it		
6. DEPOSIT OF and/or INFORMATION about the department attached Examiner's comment regarding REQUIREMEN		
Attachment(s)		
1. Notice of References Cited (PTO-892)		nformal Patent Application
2. Notice of Draftperson's Patent Drawing Review (PTO-948		Summary (PTO-413), /Mail Date
3. Information Disclosure Statements (PTO/SB/08),		Amendment/Comment
Paper No./Mail Date 2 July 2007 4. Examiner's Comment Regarding Requirement for Deposi of Biological Material	t 8. ⊠ Examiner's	Statement of Reasons for Allowance
	9.	<u>_</u> .
		Jeff Piziali 1 October 2007

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DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Drawings

2. The drawings were received on 21 November 2001. These drawings are acceptable.

Allowable Subject Matter

- 3. Claims 1-21 are allowed.
- 4. The following is an examiner's statement of reasons for allowance:

The present invention comprises a liquid crystal display device. The prior art, *Nakajima* (*US* 5,654,735 A) discloses a liquid crystal display device including a data driver [Fig. 1; 13] and a gate driver [Fig. 1; 12], comprising an LCD panel [Fig. 1; 1] having two opposing flat surfaces, an area of one of the flat surfaces for displaying an image, and at least two edges opposing one another about the flat surfaces and outside of the display area; a substrate on which the LCD panel, the data driver and the gate driver are integrally formed; the data driver on a single edge of the at least two opposing edges of the LCD panel being divided into a plurality of blocks [Fig. 1; HSWn, HSWn+1, HSWn+2, etc.] so as to divide the LCD panel into sections arranged side by side, which simultaneously supply the LCD panel with display signals respectively supplied thereto, wherein each of the blocks includes a plurality of signal lines [Fig. 1; Vn, Vn+1, etc.]

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that are connected to a plurality of data bus lines [Fig. 1; SIG1-SIG3, Øn, Øn+1, Øn+2, etc.] via analog switches [Fig. 1; HSWn, HSWn+1, HSWn+2, etc.], a number of the data bus lines being larger than a number of the signal lines, the display signals simultaneously being supplied from the plurality of signal lines [Fig. 1; Vn, Vn+1, etc.] to one of the plurality of blocks of the panel [Fig. 1; 1] via analog switches [Fig. 1; HSWn, HSWn+1, HSWn+2, etc.] simultaneously with supplying of the display signals to subsequent ones of the plurality of blocks of the panel (wherein display signals SIG1-SIG3 are illustrated in Figure 1 as all being concurrently connected/supplied to each and every block HSWn, HSWn+1, HSWn+2, etc.), and the blocks are arranged adjacent to each other along the single edge of the LCD panel, and each block includes a series of different signal lines (see Column 4, Line 1 - Column 5, Line 31).

However, as argued by the applicants (on Pages 10-18 of the Amendment filed 16 October 2006), the prior art does not expressly teach the subject matter of each of said blocks includes a plurality of signal lines that are connected to a plurality of data bus lines via analog switches, a number of said data bus lines included in each of said blocks being larger than a number of said signal lines included in each of said blocks, in combination with the remaining features and subject matter of the instantly claimed invention.

This distinct structural and operational arrangement has been incorporated into all four independent claims (i.e. claims 1 and 14-16), thereby rendering them allowable.

Any comments considered necessary by applicants must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

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fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeff Piziali whose telephone number is (571) 272-7678. The

examiner can normally be reached on Monday - Friday (6:30AM - 3PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Bipin Shalwala can be reached on (571) 272-7681. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

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information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jeff Piziali

1 October 2007